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Report

HYDRO-ELECTRIC INQUIRY COMMISSION

REPORT
ON
CENTRAL ONTARIO SYSTEM

W. D. GREGORY, CHAIRMAN
M. J. HANEY
LLOYD HARRIS
J. ALLAN ROSS
R. A. ROSS
COMMISSIONERS

JOSEPH H. W. BOWER
SECRETARY



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To His Honour Henry George...

Minister of the Province of Ontario.

May 12, 1914.

Having been appointed by Order-in-Council to inquire into, consider and report upon all matters of expenditure and administration by the Hydro-Electric Power Commission of Ontario, I have the honor to acknowledge the receipt of your letter of the 10th inst.

**General Map Showing Location of
Generating Stations, Transformer Stations
and Transmission Lines**

- of the -

Hydro-Electric Power Commission of Ontario.

COPY

**The area outlined in red shows
The Central Ontario (Trent) Section of the
Central Ontario System**

The area outlined in red shows the Central Ontario (Trent) Section of the Central Ontario System. This section is divided into two parts, the upper part being the Trent River and the lower part being the Lake Huron. The Trent River section is the larger of the two and is the more important. It is the source of the Trent River, which flows into Lake Huron. The Lake Huron section is the smaller of the two and is the less important. It is the source of the Lake Huron, which flows into Lake Erie. The Trent River section is the more important because it is the source of the Trent River, which flows into Lake Huron. The Lake Huron section is the less important because it is the source of the Lake Huron, which flows into Lake Erie.

In 1914 a number of generating plants, transformer stations, transmission lines and local distribution plants

HYDRO-ELECTRIC INQUIRY COMMISSION
W. D. GREGORY, CHAIRMAN

ECONOMICS OF H.E.P.C. DISTRIBUTION SYSTEMS

GENERAL MAP

SHOWING LOCATION OF

GENERATING STATIONS, TRANSMISSION LINES

TRANSMISSION LINES

Toronto, Jan 12th, 1925. Made by scale checked by

WALTER J. FRANCIS & COMPANY
CONSULTING ENGINEERS

General Map showing location of
generating stations, transformer stations
and transmission lines
- of the -
Hydro-Electric Inquiry Commission of Ontario.

the area outlined in red shows
the Central Ontario (Toronto) section of the
Central Ontario system

- GENERATING STATIONS
- 1000 100000 TRANSMISSION LINES
- LOW TENSION
- MUNICIPALITIES SERVED BY H.E.P.C. WITHOUT LOCAL TRANSMISSION STATION

To His Honor Henry Cockshutt,

Lieutenant-Governor of the Province of Ontario.

May It Please Your Honor:-

Having been appointed by Order-in-Council to inquire into, consider, and report upon all matters of expenditure and administration by the Hydro-Electric Power Commission of Ontario, we have inquired into and considered, among other things, the administration and expenditure by the said Commission in respect of what is known as the Central Ontario System, and respectfully submit this Report thereon. With this Report we hand to you the reports on this System made to us by our Consulting Engineer, Mr. Walter J. Francis, and our Accountants, Messrs. Price, Waterhouse & Co., respectively.

What is known as the Central Ontario System is divided into two sections. One of these sections, which is known as the Trent Section, extends along Lake Ontario from the City of Kingston on the east to the Town of Whitby on the west. The most northerly point of this Section is Fenelon Falls where a generating plant is in operation. The other section is known as the Nipissing Section. It includes the Town of North Bay and several villages. A map of the System appears opposite this page.

In 1915 a number of generating plants, transformer stations, transmission lines and local distributing plants

of the United States Government.

Information provided by the Government of the United States.

For all other information.

United States Government, Department of the Interior.

1974, January 1. The United States Government, Department of the Interior.

Information provided by the United States Government, Department of the Interior.

Information provided by the United States Government, Department of the Interior.

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Information provided by the United States Government, Department of the Interior.

were in operation in the Central Ontario district. They had been constructed by various private interests of which the leading one was the Seymour Power Company. In 1915 nearly all these plants were owned or controlled by the Electric Power Company, Limited. Most of the generating plants were located on the Trent River and derived their power therefrom. The Electric Power Company or its subsidiaries also owned a number of gas and water works, a pulp mill, a flour mill and a street railway in the City of Peterborough. The Company was not in a flourishing condition. Interest on bonds amounting to more than a hundred thousand dollars appears to have been in default at this time.

COPY
The Hydro Electric Power Commission of Ontario, which we shall hereafter refer to as "the Commission", had for some years been endeavouring to secure a foothold in the Central Ontario district and in this attempt had the co-operation and support of the leading municipalities, many of which had passed resolutions which were forwarded to the Commission in which they asked for estimates or requested that surveys of the situation as regards the supply of power be made. Other municipalities made inquiry as to the intentions of the Commission. All showed an interest in the development by the Commission in their respective areas.

While the action of these municipalities furnished the occasion for the intervention of the Commission to this part of the Province, it would seem that the action of the

municipalities coincided with plans, which the Commission already had fully in mind, for securing a foothold in Central Ontario and in making a breach in the chain of privately owned power developments on the Trent and Otonabee rivers that barred its progress eastward. In 1913 it had entered into a contract with the City of Peterborough to furnish it power at cost and had purchased the power required from a subsidiary of the Electric Power Company. It had gone so far as to have a valuation made of all the property of the Electric Power Company. It had made several offers to purchase and had received from the company several counter offers to sell. But notwithstanding offers and counter offers no agreement had resulted from the negotiations.

The Trent river is a navigable stream over which the Dominion of Canada claims jurisdiction. The Province of Ontario, while admitting the right of the Dominion to control navigation on the river, claimed to be entitled to the water not required for the purposes of navigation. An action to establish the rights asserted by the Province was begun years ago, but has never been brought to trial and the Dominion still continues in sole control.

It was at the dams built by the Dominion that the generating plants of the Electric Power Company on the Trent were located. The Company paid to the Dominion Government a rental for the use of the water, which was fixed in some cases at a lump sum per year and in others at so much per horsepower. There were on the Trent certain sites where no

generating plants were located and these sites the Commission endeavoured to secure for the purpose of power development. Some of these sites were owned by the Electric Power Company and the Commission could have secured them or any other sites through expropriation proceedings. Had the Commission secured the sites and the water it could at once have established itself in the Trent district and would have become an active competitor of the Electric Power Company. But while the Commission might have expropriated sites it could not compel the Dominion Government to sell it water, and sites without water would have been valueless. Time and again it applied for leases of the water, but the Minister of Railways and Canals under whose jurisdiction the matter came, stated that it was inadvisable to have two competing bodies generating power on the river and the applications were refused, or at any rate not granted. But the Commission did not give up, and the waters of the Trent which not long before had known only the canoe of the Indian or the explorer continued to be the scene of a duel between great public and private interest. On the one hand was the Commission seeking new fields for its activities; on the other hand was the Electric Power Company, backed by the Sun Life Insurance Company, the holder of its bonds, and by the powerful influence of the Dominion Government. At length the contest resulted in deadlock.

Meanwhile the municipalities had been actively backing up the Commission in its fight for sites and water, and the

COPY FOR ENCLOSURE TO

Hon. Frank Cochrane, Minister of Railways and Canals became anxious for a settlement. He suggested that the Commission purchase the assets of the Electric Power Company, and Sir Henry Drayton, then Chairman of the Board of Railway Commissioners for Canada, was sent to Toronto for the purpose of hearing evidence as to the value of the property of the company and determining what price should be paid for it. The Commission, however, refused to be bound by any award that Sir Henry Drayton might make and the arbitration proceedings came to an end almost before they had begun.

The Ontario Government, represented by Hon. Howard Ferguson, Minister of Lands, Forests and Mines, and Hon. Mr. McGarry, Provincial Treasurer, was now taking part in the negotiations, for the Ontario Government as well as Mr. Cochrane desired the settlement of a troublesome controversy. Messrs. Ferguson and McGarry had appeared at the hearing before Sir Henry Drayton and participated in the proceedings. After the collapse of these proceedings the relations between Sir Adam Beck, Chairman of the Commission, and Mr. Strachan Johnston, President of the Electric Power Company, appear to have been far from cordial -- in fact they might be described as severely strained. Mr. Johnston says that Sir Adam Beck had agreed to accept Sir Henry Drayton's award and that upon his refusal to do so, he (Johnston), acting on behalf of the Electric Power Company, refused to sell to the Commission or to carry on any further negotiations with it. There had already been talk

of the sale being made direct to the Ontario Government, and henceforth the negotiations with the Electric Power Company were conducted directly by the two Ministers mentioned.

There were other reasons why the sale should be made directly to the Government. The company's assets were, as we have pointed out, of the most varied character and the Power Commission Act contained no provision for the purchase by the Commission of such undertakings as pulp and flour mills, gas and water works or street railways. It is doubtless true that the Commission might have expropriated the electric development portions of the property, but it appears clear that the Minister of Railways insisted upon the Commission taking the whole of the company's property if it took any, so the Commission had to take it all if it was to get any water from the Trent River.

Sir William Hearst, at that time Prime Minister, says:

" It was not solely a power plant those people (the company) would not sell parts without the whole."

Hon. Mr. Ferguson says that:

" It would be a pretty drastic step to say the Hydro could step in and take out the power interests and leave the rest of the junk on the company as a loss."

On Saturday, March 4th, 1916, the Honorable Doctor Reid, the Acting Minister of Railways, arrived at Toronto. A meeting was held on the morning of that day at which were

present Hon. Mr. Reid, Hon. Howard Ferguson, Hon. Lynch-Staunton, Counsel for the Ontario Government, and Mr. Strachan Johnston, President of the Electric Power Company. Terms of sale of the assets of the Electric Power Company to the Provincial Government were discussed. To what extent the parties agree is not certain from the evidence given before us, but it would appear that the representatives of the Government offered to deliver to the company 50-year bonds of the Province of Ontario for \$8,350,000. in payment for all of its properties and that it was understood that the company would accept the offer. This price was subject to the approval of Sir Adam Beck as Chairman of the Commission and representative of the municipalities. In the afternoon there was another meeting. At this meeting the same parties appear to have been present, except that Mr. Strachan Johnston was absent, and Sir Adam Beck was present. For a part of the time at least, Mr. Gaby, Chief Engineer of the Commission, was there. The terms of sale of the assets of the Electric Power Company to the Province before mentioned were discussed and agreed to by Sir Adam Beck. Mr. Lynch-Staunton prepared a memorandum in longhand setting them forth. This memorandum was taken away by Mr. Gaby, typewritten, brought back and signed by Sir Adam Beck. It was in the form of a letter and read as follows:-

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COPY FOR ENCLOSURE TO

"HYDRO ELECTRIC POWER COMMISSION OF ONTARIO"
Office of the Chairman

Continental Life Building
Toronto, March 4th, 1916.

"Honorable G. Howard Ferguson,
Minister of Lands, Forests & Mines,
Parliament Buildings, TORONTO.

Dear Sir:-

Referring to the Electric Power Company's interest in the Trent District, I would recommend that the Government offer the Electric Power Company, including all interests controlled by it for all their physical assets (excluding the accounts receivable and payable) franchises, rights, interests, contracts, works, etc. as they existed on March 1st, 1916, and as added to since that date, the sum of \$8,550,000. in 4% Government Bonds interest payable half yearly. Bonds redeemable in fifty years, such Bonds shall provide for the deferring of the Sinking Fund for the first ten year."

Yours truly,

COPY

A. Beck,

Chairman. "

An agreement between the Electric Power Company and the Government of Ontario was subsequently prepared, and on March 10th, it was signed by Hon. Mr. Ferguson on behalf of the Province and by the officers of the Electric Power Company. It may be found in chapter 18 of the Ontario Statutes for 1916. Under this agreement the Province of Ontario became the owner of all the property of the Electric Power Company.

There was, however, an important difference between the terms set forth in the letter from Sir Adam Beck and the Agreement as executed by the Government. It will be noted that Sir Adam Beck in his letter to Mr. Ferguson refers to the Electric Power Company's interests "in the Trent District"

The company contended that this did not include their property at Nipissing. There seems to be no doubt that it was understood at the meeting at which the letter was signed that the Nipissing property was included. It was the property of the Electric Power Company. It had been valued by the Commission, it had been included in the offers and counter offers already referred to. Along with the other properties of the Company it was covered by the outstanding bonds of the Company. However, the Company took the position that the Nipissing plant was not included in "the Trent District" and that if it were to go to the Government the Company must have a quid pro quo. While the agreement as drawn and executed included all the property of the company, the term for which the bonds were to run had been changed from fifty years to ten years. Fifty-year 4% Province of Ontario bonds for \$8,350,000. were worth at that time \$6,825,597.28. The same amount in ten year bonds was worth \$7,705,206.22 so that the company made \$879,608.94 by the change. It is interesting to note that the highest value that had been placed on the Nipissing plant by the engineers of the Commission was \$383,665.00, so that after deducting the value of this plant from the increase in the value of the bonds the company came out \$495,943.94 to the good. That the change in the term for which the bonds were to run was made owing to the difference arising in respect of the Nipissing property is clearly stated by Mr. Strachan Johnston and Hon. Mr. Ferguson.

Mr. Johnston says:-

"...Mr. Ferguson told us that he would have to get the Nipissing property as well; then we negotiated the matter anew and he reduced the term of the bonds from 50-year bonds to 10-year bonds.

Q-"Who did that?

A-"Mr. Ferguson and we agreed to put in the Nipissing property. We put in the Nipissing property to get the reduction in the term of the bonds from 50 years to 10 years."

Hon. Mr. Ferguson says:-

"Well, I haven't any doubt from what Mr. Johnston has said; he recalls many things to me. I remember we got into a dispute about whether Nipissing was included or not, and they declined to accept the bonds on this long-term basis, and I think that, after further negotiations, he agreed to put in Nipissing if we reduced the bonds to 4 per cent....

Q -"And make the term ten years?

A -"And make the term ten years.

Q -"So that it was the inclusion of the Nipissing that really determined the lowering of the term?

A -"That and the fact that the company said 'No, we won't take that.'"

The Commission protested against the change, but after the agreement had been executed. Sir Adam Beck says that he did not approve or disapprove but that he would have recommended the purchase on the terms of the agreement rather than not have the property.

Honorable Mr. McGarry, who was Provincial Secretary at the time the property was bought, states that he desired the term of the bonds changed from fifty to ten years because he was satisfied that the Government would be able to borrow money at

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less than four per cent. in ten years' time.

He says:

"My views were that in ten years, when the war would be over, we would get back to cheap money again ... I told Mr. Ferguson that on the merits of it I thought it would be better for us to make the bonds for ten years at 4% ... I say it was far better in the interests of the Province to make the term ten years, because we could borrow at a cheaper rate than 4%. That was my opinion and my firm conviction."

In our opinion Mr. McGarry's estimate was decidedly over-sanguine. While no one knows what the rate of interest on bonds of this character will be in three, ten or twenty years hence, it is reasonably certain that a number of years will elapse before the Province will be able to borrow at a four per cent. rate. If the Government has to refund in 1926 when the present bonds mature, it will, in our judgment, have to pay a higher rate than four per cent.

We have stated that the Commission had a valuation of the property of the company made. This valuation was made by the engineers of the Commission in 1914. They made an estimate of the then present value and also of the replacement value ... that is, the cost of replacing the plant. The valuation was as follows:-

	<u>Replacement Value</u>	<u>Present Value</u>
Central Ontario Section .	\$5,046,088.00	\$3,987,519.00
Nipissing Section	388,668.00	298,596.00
Stores and Spare Parts. .	160,891.00	120,666.00
Tools	7,767.00	5,884.00
	<u>\$5,598,411.00</u>	<u>\$4,410,465.00</u>

While we do not know what the cause of the disease is, we do know that it is a very serious one and that it is one that we must be prepared to deal with.

The replacement value of the property fixed by the engineers of the Commission was thus \$2,106,795, less than the cash value of the bonds given by the Government for it and \$2,751,589. less than the amount of the bonds themselves; while the present value of the property as fixed by the engineers was \$3,294,741 less than the cash value of the bonds and \$3,939,535 less than their face value or in other words \$3,939,535 less than the amount that will have to be paid by the Government to redeem the bonds in 1926.

When the property was taken over in March, 1916, the replacement value was reduced by the engineers of the Commission to \$5,291,099.00. To this, however, was added certain capital expenditures which had been made in the meantime by the Electric Power Company and which amounted to \$182,049.91, and also an additional amount representing the value of tools, equipment, material and spare parts, so that the total replacement value was finally placed at \$5,672,658.

The difference between this \$5,672,658.00 and the amount of the bond issue was thus \$2,677,342.00. This item was entered on the books of the Commission as "intangibles" and was apportioned among the various properties on a more or less arbitrary basis. Mr. Gaby, chief engineer of the Commission, says that the difference between the replacement value and the amount of the bonds was termed "intangibles" in order that the books of the Commission might be made to balance and that the entry of "intangibles" was merely a matter of book-keeping.

The following table shows the final apportionment as it appears on the books of the Commission:

	Replacement Value	Intangibles	Total
Central Ontario			
Section . .	\$5,065,992.91	\$2,578,671.00	\$7,644,663.91
Nipissing Section .	408,156.00	98,671.00	506,827.00
Material and spare			
Parts . . .	184,998.53	-	184,998.53
Tools	13,510.56	-	13,510.56
	<u>\$5,672,658.00</u>	<u>\$2,677,342.00</u>	<u>\$8,350,000.00</u>

It seems unlikely that the members of the Government having charge of the negotiations were familiar with the details of the valuation, but there is no doubt that they knew that a valuation had been made by the Commission's engineers and they were doubtless aware of the value placed by the engineers upon the property. It is unlikely that they knew of the terms of the franchises held by the Company or of the burdensome obligations to which reference is made hereafter. The following extracts are taken from the evidence given respectively before us by Sir William Hearst, who was Prime Minister in 1916, and the Honorable Howard Ferguson who conducted the negotiations:

SIR WILLIAM HEARST -

Q - "Did the Government have a valuation of the plant made before the purchase?"

A - "I cannot tell you that other than they would have the benefit, I have no doubt, of the information and report that the Hydro had."

Q - "You relied upon the report made by the Hydro?"

A - "That is my recollection."

The following table shows the first approximation as to the amount of the losses of the companies:

Company	Estimated Losses	Actual Losses
General and Eastern	10,000,000	10,000,000
Electric Power	10,000,000	10,000,000
Gas	10,000,000	10,000,000
Water	10,000,000	10,000,000
Other	10,000,000	10,000,000
Total	50,000,000	50,000,000

It seems unlikely that the losses of the companies will be as high as the first approximation. The companies have been able to obtain loans from the Government and the public, and they have been able to sell their assets at a profit. It is unlikely that they will be able to obtain as much as they need. The Government has been able to obtain loans from the public, and they have been able to sell their assets at a profit. It is unlikely that they will be able to obtain as much as they need. The Government has been able to obtain loans from the public, and they have been able to sell their assets at a profit. It is unlikely that they will be able to obtain as much as they need.

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HONORABLE HOWARD PERDUE-

Q - "Did the Government on its own account make any investigation as to the value of the assets of this company that they were purchasing?"

A - "The Hydre were experts.

Q - "You relied entirely upon them?"

A - "Oh, yes."

It would appear from the evidence given by Sir Adam Beck and others that the price paid was rather a matter of bargaining than of valuations and inventories. A potent and directing influence throughout on behalf of the vendors was the Sun Life Insurance Company which held all or nearly all the outstanding bonds of the Electric Power Company, which amounted to approximately \$9,000,000.

In April, 1916, the month after the agreement to purchase was executed, the Legislature passed an Act which confirmed the agreement and provided that the Government might vest the administration and management of all the undertakings and properties purchased in a Commission. On May 5th, 1916, an Order-in-Council was passed placing the administration and management of the developments and other properties purchased under the control of the Hydro-Electric Power Commission of Ontario. The administration and management had continued in the hands of the Commission down to the present time.

It is clear that when the Government bought the properties in the name and with the money of the Province it did so without any intention of keeping them permanently. By

STATEMENT OF THE COMMISSIONER

TO THE SENATE AND HOUSE OF REPRESENTATIVES
OF THE STATE OF NEW YORK
IN SENATE, JANUARY 10, 1911.

ALBANY: JAMES B. LEE, STATE PRINTER.

1 - "You called this, didn't you?"

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purchasing the properties the Government did for the Commission and the municipalities what they could not do themselves. Having done this it was the intention of the Government to turn the properties over to the Commission to operate for the municipalities. All this was to be done without any loss to the Province.

Sir William Hearst and Hon. Mr. Ferguson say:-

SIR WILLIAM HEARST -

Q - "You expected if you turned it over it would be turned over so that you would not lose anything, is that so?"

A - "Yes, that was the idea. I think it was anticipated that it could be worked out in such a way that it would be for the benefit of the parties interested, deriving power in that part of the Province, and without any loss to the Province."

HONORABLE HOWARD FERGUSON -

Q - "Was it anticipated that if the Government did buy it, it could ultimately dispose of it at a price which would save them from loss?"

A - "The idea was to hand it over to the municipalities at just what it cost ... I remember one of the considerations was then, it was thought in ten years this whole thing could be reorganized and put on a Hydro basis."

If one person buys property for another he sees before he makes the purchase, if he is a prudent man, that funds are provided or security given by the party for whom he is acting so that he will run no risk of loss. This is a precaution that it would seem would be taken by anyone, but strange to say the Government overlooked or neglected to take such a

simple precaution in this case. It made the Province liable for the payment of \$8,350,000 and for any further expenditures that might be necessary while the property remained in its hands. The municipalities, however, were not bound. They might take the properties or not -- just as they pleased. They might take some of the properties and leave the others. They might take the productive properties and leave the unproductive. In other words the Province took all the risks while the municipalities took none.

Before the Government bought for the municipalities it should have made sure that the municipalities would accept what it bought for them at the price that it paid. It is always easier for one who makes a loan or indorses a note to obtain security before the act than after it. If the Government had taken the position that before purchasing the property or pledging the public credit the municipalities should agree to take over the properties at the price paid by the Government, there seems no doubt that adequate guarantees would have been forthcoming. If when requested to furnish such guarantees the municipalities had declined to do so, the Government should have declined to make the purchase. A clear-cut plan for making over the properties to the municipalities or to the Commission to operate for them should have been agreed upon. It would have been much easier for the Province to have come to an agreement with the municipalities then than to come to an agreement today after seven years of operation carried on with varying results under the many different systems, contracts and plans described later in our report.

In the case of operation by the Commission under the Power Commission Act, the Government issues no bonds to meet the cost until the municipalities interested agree to pay annually to the Commission a sum sufficient to meet the entire cost to which the Government is put and provide a sinking fund as well. But there was no corresponding obligation on the part of the municipalities of Central Ontario. To us the course taken by the Government appears to have been unbusinesslike and imprudent and sure to lead to trouble in the future.

It may be that notwithstanding the fact that there is no agreement binding them to take the properties off the hands of the Government at cost, the municipalities of Central Ontario are willing to do so. **COPY** We hope that this is the case, but at the hearings held by us and at which the municipalities were represented such an intention was not expressed. Mr. T.H. Stinson of Lindsay, speaking for the Midland Municipal Association, presented to us a resolution passed by the Association at a meeting held at Port Hope on October 3rd, 1922, at which seventeen municipalities were represented. In this resolution the Association requested that legislation be passed for the transfer of the powers and utilities of Central Ontario to the Hydro-Electric Power Commission for the municipalities so that the property might be operated for the municipalities as in Western Ontario. The subject of price was approached with caution. The municipalities desired the property, so the resolution said:

In the case of a person to whom the Government has
granted a license, the Government is under no obligation to

the fact that the individual has been granted a license
does not mean that the Government is under no obligation to
revoke the license if the individual is found to be
unworthy of the license. The Government is under no obligation
to grant a license to any individual who is found to be
unworthy of the license. The Government is under no obligation
to grant a license to any individual who is found to be
unworthy of the license. The Government is under no obligation
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The subject of the license was discussed at the meeting. The
Government is under no obligation to grant a license to any
individual who is found to be unworthy of the license.

"...at a price and on terms that will enable the powers and utilities to be operated on a sound and satisfactory financial and commercial basis and the local utilities be taken over by the several municipalities at a price that will enable them to operate these utilities at fair charges for service and without danger of financial loss."

Speaking himself, upon the request of the Association that the property be made over to the municipalities, and in regard to the price which they should pay for it, Mr. Stinson said, in part:

"We would not be prepared to take it (the property purchased by the Government) over just at what it cost. That committee was appointed for the purpose of making some investigations and ascertaining what would be a proper basis to arrive atThe basis Mr. Ireland (Manager for the Commission in Central Ontario district) would recommend, as to purchase, would be on about a 40-year basis, 4 per cent. bonds if we could negotiate a deal along that line. He didn't say the price at which the Hydro would recommend to take it over, but he did say this, that the price ought to be less than what it was actually purchased at Undoubtedly we want to take it over at the lowest possible price."

Q - "Who would bear the difference between the price the Government paid for it and the price you would expect to get it at?"

A - "The Government. The answer I would make to that ... would be that it would have to be borne by the Government ... We are a unit on the question of purchase if we can negotiate the right kind of bargain."

Mr. Stinson said that the municipalities would be satisfied with 40-year bonds at 4 per cent.

Q - "And the Government would have to borrow the money to pay off the ... bonds and in all likelihood would have to pay considerably more than 4 per cent. for its money, and yet you would expect them to lend it to you at less than they would have to pay?"

A - "Yes."

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Mr. R. H. Hicks, Chairman of the Local Utilities Commission of Peterborough, speaking in reference to the purchase of the System from the Government, in whole or in part, was very frank. He said:

"If it is a good thing we want it, but if it isn't why let the Government keep it.

Q-"What about your street railway?

A-"That is one of the things we don't think is very good.

Q-"But you would be willing to take it over at the cost to the Government?

A-"Oh, No....we would just as soon leave it where it is. The Government has purchased it ...let them go on and operate it.

Q -"Who will pay the deficits?

A -"The Government will pay the deficits

Q -"Are you prepared to take over that (the gas plant) at what it cost the Government?

A -"We haven't found out what it is worth yet, whether it cost too much."

Mr. F.L.Mason, of Oshawa, speaking of the property, said:

"I don't think there is any secret about it that the Government actually paid about \$2,000,000. more than the actual valuation of the properties.

Q -"The Government paid \$2,000,000.more than the actual valuation?

A -"Approximately.

Q -"But they paid it for you?

A -"Well, they did, yes, in a way they did, and in another way, I think it was probably in the general interests of the public that the property was purchased.

Q -"Didn't you ask them to buy it?

A -"Yes, I will admit we did"

We quote this evidence as showing the general attitude of the municipalities. Any trouble of this kind would have been avoided if the Government had taken reasonable and necessary precautions to assure the Province against

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loss. The statement of Mr. Ireland, Local Manager of the Commission in Central Ontario, to which Mr. Stinson referred, is surprising and should not have been made. We are informed that no authority to make such a statement was given by the Government.

But little time was given to the consideration of the matter in the Legislature. The Bill ratifying the agreement for the purchase was introduced on the last day of the session of 1916; received its first, second and third readings and was passed on that day.

Since the purchase of the property the Commission has made further advances. On October 31st, 1922, its total payments in bonds and cash amounted to \$12,057,858.78, made up as follows:

Bonds of the Province issued as the purchase price of the System on 1st March, 1916	\$8,350,000.00
5% debentures issued by the Province in 1917, due July 1st, 1927, in part purchase of Bruden Township pulp-wood areas	225,000.00
Cash advances of the Province in the period 1st March, 1916, to 31st October, 1922	<u>3,482,858.78</u>
	<u>\$12,057,858.78</u>

We have stated in general terms what the Government secured from the company in return for the \$8,350,000.00 in bonds which it handed to it. The statement following



HYDRO-ELECTRIC INQUIRY COMMISSION
W. D. GREGORY, CHAIRMAN
ECONOMICS OF H. E. P. C. DISTRIBUTION SYSTEMS
CENTRAL ONTARIO SYSTEM
CENTRAL ONTARIO SECTION
MAP SHOWING LOCATION OF
GENERATING STATIONS, TRANSFORMER STATIONS AND
TRANSMISSION LINES

- * GENERATING STATIONS
 ○ TRANSFORMER STATIONS OWNED BY ONTARIO GOVERNMENT
 ○ MUNICIPALITIES SERVED BY H.E.P.C. WITHOUT LOCAL TRANS'R. STA.
 NOTE:-

TRANSMISSION LINE VOLTAGE SHOWN THUS 44,000

shown in more detail the various classes of property purchased and the amount of the tangible and intangible values allotted to each. The "tangible" values in each case is the replacement value fixed by the engineers of the Commission. This statement is taken from the Commission's books.

	<u>Tangibles</u>	<u>Intangibles</u>	<u>Total</u>
<u>Central Ontario Section</u>			
Developed Powers	\$1,822,690	\$ 972,000	\$2,775,390
Undeveloped Sites and Stand-by Plants	323,731	963,212	1,286,943
Transformer Stations	632,406	141,426	773,832
Transmission Lines	804,080	175,962	980,042
Local Electric Utilities	637,992	160,679	798,662
Gas, Water and Street R'ly	753,670	164,937	918,607
Pulp Mill	91,223	19,964	111,187

Minissing Section

COPY

Power Development and Steam Plants	229,011	62,151	291,162
Transformer Stations	25,072	5,842	30,914
Transmission Lines	35,136	8,186	43,322
Local Electric Utilities	118,937	22,492	141,429

Both Sections

Material and Supplies	184,999	-	184,999
Tools and Equipment	13,511	-	13,511
	<u>\$5,672,658</u>	<u>\$2,677,342</u>	<u>\$8,350.00</u>

Extensions and Additions

The Commission has extended the Hesley Falls plant and erected a generating plant at Ranney Falls. It has also made a number of extensions of the transmission system. A map showing the generating stations, transformer stations and transmission lines as they exist today is shown opposite this page. The following table shows the generating stations as they existed at the time of the purchase in 191⁶ and as they exist today, together with the horsepower developed at

the respective stations then and now. It will be noted that the increase of 14,000 h.p. is made up of an additional development of 4,000 h.p. at Hesley Falls and the new development of 10,000 h.p. at Penney Falls.

Table of Generating Stations

Location	Name	H.E.P.C. Developed Rating 1916	H.E.P.C. Developed Rating 1922
Dam No. 2 Trenton (Sidney)		4,000 h.p.	4,000 h.p.
No. 5 Frankford		3,470	3,470
No. 10 Penney Falls		-	10,000
No. 11 Campbellford (Reymour)		4,000	4,000
No. 14 Hesley Falls		8,000	12,000
No. 18 Peterborough (Lamburn)		2,000	2,000
No. 30 Fenelon Falls		950	950
		22,400	36,400

COPY

Power Purchased

In addition to the power generated, contracts have been made on behalf of the Province with the Peterborough Hydraulic Power Company and the municipality of the Town of Campbellford for a supply of power from their respective plants.

Undeveloped Powers

In addition to the developed power sites the Trent Section contains a number of undeveloped power sites at various points. Most complete and interesting details of these sites are given on pages 9 and 10 of the report of Mr. Walter J. Francis, our Consulting Engineer, already referred to.

Transmission Lines

The transmission lines which were included in the purchase consisted for the most part of a 44,000 volt network, with a tie line from Fenelon Falls to Lindsay operating

at 11,000 volts, and a tie line from Trenton to Frankford operating at 8,600 volts. Since 1916 the transmission system has been greatly extended, having grown from 285 miles in 1916 to nearly 500 miles now.

Transformer Stations

A table of the transformer stations in the Trent Section, giving capacity and voltage of each, follows:-

Location	Capacity K.V.A.	Voltage		Remarks
		H.T.	L.T.	
Belleville	2,250	44,000	2,400	
Belleville, Lehigh Cement	3,000	44,000	600	
" Belleville Cement Co.	2,250	44,000	600	
Bowmanville	1,500	44,000	2,400	
Brighton	300	44,000	2,400	Feeds Smithfield
Campbellford-Northern Pulp Mill	2,250	44,000	2,400	
Cobourg	600	44,000	2,400	
Colborne	120	44,000	2,400	
Deloro	750	44,000	600	
Deseronto	600	44,000	2,400	
Kingston	2,250	44,000	2,400	
Lakefield	225	6,000	4,160	From Auburn G.S.
Lindsay	1,500	44,000	2,400	
Lindsay	750	11,000	2,400	
Madoc	900	44,000	4,160	
Narmora	50	44,000	2,400	
Millbrook	100	44,000	2,400	
Napanee	600	44,000	2,400	Newburg & Camden
Newcastle	100	44,000	2,400	Feeds Orono
Norwood	300	44,000	4,160	
Onemeo	120	44,000	2,400	
Oshawa	5,250	44,000	4,160	Feeds Whitby, Oshawa Rural, etc.
Peterborough	5,000	6,000	2,400	
Pictou	300	44,000	2,400	
Point Anne	600	44,000	600	
Port Hope	400	44,000	2,400	
Sulphide	1,050	44,000	4,160	
Sulphide, Nichols Chemical	225	2,200	220	
Trenton	750	6,600	4,160	
Trenton	600	6,600	2,400	
Wellington	300	44,000	4,160	Feeds Bloomfield



TABLE OF SOUTH RIVER STORAGE RESERVOIRS			
NUMBER	NAME	STORAGE HEAD FEET	APPROX. ACRE FEET
1	GENESE	7	150,000
2	SHAG	7	250
3	BOAL	5	500
4	SOUTH RIVER	17	500
5	CLEAR	7	250
6	CRAIG	13	1200
7	SURPRISE	9	600
8	GULL	45	150
APPROX. GROSS AVAILABLE STORAGE 330,000			



- * GENERATING STATIONS
 - HIGH TENSION TRANSFORMER STATIONS
 - LOW TENSION
 - MUNICIPALITIES SERVED BY H.E.P.C. WITHOUT LOCAL TRANS. STATION
- NOTE:-

TRANSMISSION LINE VOLTAGE SHOWN THUS 110,000

HYDRO-ELECTRIC INQUIRY COMMISSION
W.D.GREGORY, CHAIRMAN
ECONOMICS OF H.E.P.C. DISTRIBUTION SYSTEMS
NIPISSING SECTION OF CENTRAL ONTARIO SYSTEM, AND
THUNDER BAY SYSTEM
**MAP SHOWING LOCATION OF
GENERATING STATIONS, TRANSFORMER STATIONS AND
TRANSMISSION LINES**
Toronto, Jan. 12th, 1923. Made by S.R.N. Checked by L.L.H.
WALTER J. FRANCIS & COMPANY
CONSULTING ENGINEERS

Flour Mill

A flour mill at Frankford was among the assets of the company purchased by the Government. We are informed that it was at no time operated by the Commission and has been dismantled.

Nipissing Section

A statement of the price paid for the Nipissing Section of the Central Ontario System has already been given. The Section includes undertakings for the generation, transmission and distribution of electrical energy to consumers in the town of North Bay and the villages of Callander, Powassan and Nipissing. A map showing them is inserted opposite this page. The electrical energy is retained to the consumers through the local electric distributing systems at fixed rates governed as to their maximum, in the case of North Bay, by a franchise granted by the municipality to a subsidiary of the Electric Power Company prior to March 1, 1916. The rates charged for power in Powassan, Callander and Nipissing are by agreement between the Commission and the consumers. The properties of this Section consist of a hydraulic generating station on the South River at Nipissing of a capacity of approximately 1900 h.p., and a steam plant generating station with a capacity of approximately 625 h.p. The steam plant was for some time shut down but during the recent acute power shortage was rehabilitated and is now operating. There is in this Section approximately 35 miles of 22,000 volt lines and three transformer stations located at North Bay, Powassan and Callander. There is also an abandoned power house at Powassan. The local electric

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A letter will be forwarded to the Commission and the Board of the company purchased by the Government. The letter will state that it was at no time required by the Commission and the Board.

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A statement of the facts for the Commission and the Board.

On the Central Electric System and already been given. The Section includes waterworks for the Commission, transmission and distribution of electrical energy as required in the area.

of North Bay and the Village of Galiano, Vancouver and B.C. The electric energy is required to be supplied to the area.

Local electric distribution systems are linked together as to their maximum, in the case of North Bay, by a transmission line.

power in Vancouver, Galiano and B.C. The power is required for the Commission and the Board. The power is required for the Commission and the Board.

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distributing systems in North Bay, Callander, Powassan and Nipissing comprise transformers, distributing lines and metering equipment. Certain water rights in connection with the Nipissing Section are held at Cox Chute and Bingham Chute. An appropriation for the construction of a power plant at Bingham Chute was made at the last session of the Legislature, and plans have been made. Under the original contract between the subsidiary of the Electric Power Company and North Bay it was agreed that power to the extent of 3,500 h.p. should be provided, but the capacity of the plant at the present time falls far short of this quantity. The recent shortage appears to have been caused largely by the great increase in the number of electric stoves in use in North Bay. The existing franchise with the municipality of North Bay limits the rates chargeable for power. North Bay consumes approximately 90% of the total load of this Section.

When the Nipissing plant is remodelled and the Bingham Chute development is completed sufficient power should be available amply to provide for North Bay, and the other points now being served, for some years to come. If the demand continues at the present rate a further development will have to be provided in about five years' time.

OPERATIONS.

Having now outlined the negotiations that led up to the purchase and the agreement arrived at, and described in general terms the properties that were purchased by the Government and turned over to the Commission to be administered by it, we shall deal with the results of the operations that have

since been carried on.

Capital Costs per Horsepower
for Central Ontario Plants

The following table shows in brief form the relative capital costs per horsepower for each of the development plants in the Central Ontario Section:

	Head Feet	Year Built	Horse Power Rating (H.P.C)	Capital Cost per H.P. (H.P.C) (rating)	Capital Cost per H.P. based on turbine capacity	Remarks
Trenton	18.6	1911	4,000	\$ 89.00	\$ 64.00	Low head
Frankford	17	1913	3,400	95.00	77.00	Low head
Ranney Falls	54	1920-22	10,000	170.00	154.00	Elaborate design and high unit prices. Medium head.
Campbellford	22.5	1910	4,000	97.00	71.00	Low head
Healey Falls	74	1913-14 extended 1919	12,000	127.00	90.00	Turbine rating disproportionate to rated output Medium head
Auburn	17.5	1911-12	2,000	208.00	146.00	Cost of dam included; small capacity; low head; expensive local conditions.
Fenelon Falls	22.5	1899	930	244.00	227.00	Small capacity and expensive local conditions. Low head.

The capital cost per horsepower would be much higher but for the fact that a large portion of the development has been made by the Dominion Government in the form of dams, none of which were constructed by the Commission. For the use of the water made available for power through the construction of these dams the Commission pays the Dominion Government an annual rental. In some instances the rental is a lump sum per annum; in others the rental is so much per horsepower.

Total Cost of Power

The total cost of power furnished by the Commission for the System is made up approximately as follows:

(1) Operating costs, including power purchased	25%
(2) Maintenance	10%
(3) Overhead and general expenses	12%
(4) Interest	35%
(5) Renewal Reserve	15%
(6) Contingencies	5%
	<u>100%</u>

With increased development have come increased revenues. The revenues which were \$637,660.00 in 1917 had grown to approximately \$1,108,608.00 in the year that ended October 31, 1922.

Below we give a table showing the population of the various municipalities served, the number of consumers and the power sold, as of October 31, 1921. It will be noted that the percentage of consumers to population runs from 15.5 in the case of Deseronto to 50.5 in the case of Brighton.

Municipality	Population	Consumers	Percentage Consumers to Population	H.P. Billed 1921	Kilowatt Hours 1921	Kilowatt Hours per Consumer
Bloomfield	550	97	17.6	33.4	51,027	526
Havelock	1,266	302	23.8	16.4	120,440	400
Kingston	22,368	4,047	18.1	1,847.8	8,184,600	2,020
Lakefield	1,146	232	20.2	110.8	190,081	820
Marmora	853	154	18.0	11.4	50,770	330
Norwood	711	204	28.7	9.0	61,000	299
Onemee	557	120	21.5	48.0	103,980	866
Peterboro	21,790	5,521	25.3	4,613.7	14,060,250	2,550
Pictou	3,189	885	27.7	269.6	869,521	980
Wellington	850	173	20.3	69.3	141,564	818
Whitby	3,973	1,000	-	397.6	1,399,224	1,400
Belleville	12,243	2,878	23.5	1,727.6	5,773,960	2,004
Bowmanville	3,250	813	25.0	1,113.9	3,391,160	4,170
Brighton	1,375	419	30.5	111.2	300,160	718
Cobourg	5,108	1,075	21.0	724.7	2,201,760	2,045
Deeronto	1,928	300	15.5	313.2	659,230	2,194
Lindsay	7,840	1,880	24.1	1,375.6	4,148,500	2,250
Millbrook	733	177	24.1	54.9	96,000	542
Napanee	2,847	711	25.0	417.1	1,058,350	1,490
Newcastle	619	163	26.3	35.0	80,240	490
Newburg	434	105	-	340.3	138,542	1,310
Orono	700	153	21.9	35.0	80,240	525
Port Hope	4,567	1,094	23.9	531.9	1,444,680	1,321
Oshawa	12,246	2,819	23.0	3,415.7	9,048,098	3,210
Tweed	1,268	333	26.3	94.7	219,840	670
Trenton	5,576	1,420	25.5	690.5	2,041,880	1,440
	117,989	27,055	22.9	18,288.3	55,915,097	2,067

(#) - approximate

Losses on Operation

The losses on operations up to October 31st, 1922, amounted to \$207,167.98. The results by years were as follows:-

	<u>Surplus</u>	<u>Deficit</u>
20 months ending Oct. 31, 1917		\$ 77,549.66
Year ending 31st October, 1918		12,951.83
Year ending 31st October, 1919		190,722.38
Year ending 31st October, 1920	\$154,967.75	
Year ending 31st October, 1921		42,674.03
Year ending 31st October, 1922 (approx)		<u>58,237.83</u>
	\$154,967.75	\$362,135.73
		<u>154,967.75</u>
Total deficit		<u>\$207,167.98</u>

The losses and profits of the System are as follows:

LOSSES

Power Department	\$374,947.44
Gas Works	108,430.62
Cobourg Water Works	27,010.14
Peterborough Radial Rly	130,450.52
Nipissing Section	30,350.34
Loss on sale of Trenton Water Works	<u>2,270.64</u>

Total Losses \$673,459.70

PROFITS

Local Electric Systems	\$421,085.39
Trenton Water Works	3,816.57
Campbellford Pulp Mill	<u>41,389.76</u>

Total Profits \$466,291.72

Net Loss to October 31st, 1922 . . . \$207,167.98

In addition to the deficit there has been a loss represented by the difference between the amount realized for property sold or scrapped and the book value thereof.

This loss has been added to the "intangibles." During the period from March 1st, 1916, to October 31st, 1921,

"intangibles" were in this way increased to the extent of \$171,395.15. The losses of this class are from:

Power Developments	\$132,245.39
Low Tension Lines	7,277.67
Sub-stations	14,751.09
Local Electric Systems	6,238.56
Nipissing Section	9,184.70
Pulp Mill.	<u>1,677.74</u>

TOTAL..... 171,395.15

System not Under Provisions of Power Commission Act.

It is important to note that the Government under the provisions of the Act of 1914 had the right to place the Central Ontario System under the management and control of any Commission. The fact that it was placed under the Hydro-Electric Power Commission did not bring it to any extent under the provisions of the Power Commission Act. It still remained a distinct property owned by the Province and no more subject to the Power Commission Act than if it had been still owned by a private company. The Commission was under no obligation to sell power at cost except to the extent that it might bind itself to do so after it took the management over. It was at liberty to charge just as high rates as were permitted by the agreements with the respective municipalities, which had been made by the Electric Power Company or its subsidiary companies when they owned the properties. It could make a profit out of one municipality and a loss in another. At the time of the purchase and now power was and is being sold under widely varying conditions and almost every class of contract. None of the municipalities

acquired any interest in the properties except to the extent hereinafter mentioned.

Groups to which Power Sold.

Speaking broadly power is now sold by the Commission to three different groups:-

- (a) Private companies which take power at fixed rates, and certain municipalities, including Kingston, which take power at fixed rates on a wholesale basis.
- (b) Nine municipalities which buy power at "cost" on a wholesale basis.
Power taken by the Townships of Whitby, East Whitby and Pickering at cost over the Oshawa Rural Line.
- (c) Fifteen municipalities in which power is sold retail by the Commission over local distributing plants owned by the Government.

An analysis of the sales made to each of these groups indicates that group (a) takes from 25% to 30% of the total electric energy sold. Group (b), which takes power at cost, takes practically the same quantity. Group (c) which includes the municipalities to which power is sold at retail prices by the Commission takes from 40% to 50% of the total electric energy developed.

The revenue from the power sold to groups (a), (b) and (c), together with the profit and loss, is shown by the following statement for the year ended October 31st, 1921;

	<u>Revenue</u>	<u>Profit</u>	<u>Loss</u>
Power sold under (a)	\$252,250.05	-	\$62,775.62
Power sold under (b)	139,232.01	-	-
Power sold under (c)	582,659.39	\$84,516.21	-
	<u>974,112.45</u>	<u>84,516.21</u>	<u>62,775.62</u>

Thus it will be seen that the revenue derived from group (a), which takes from 25% to 30% of power sold, amounted to approximately 26% of the entire revenue. The revenue produced from group (b) which takes from 25% to 30% of power sold, was only 14% of the total revenue while group (c), which takes less than 50% of the power sold, paid 60% of the revenue received.

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The results of the operations in the fifteen municipalities in which power is distributed and sold retail by the Commission have not yet been determined for the fiscal year which ended October 31st, 1922, but we have ascertained that the total profit received by the Commission that year for power sold in these municipalities was \$84,475.22, and the total profit in the same municipalities from March 1st, 1916, to October 31st, 1922, was \$421,095.39. The figures showing the profits or losses in the respective municipalities from March 1st, 1916 up to October 31st, 1921, are as follows:

Year	1961	1962	1963	1964	1965
Total	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Operating	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Interest	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000

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	<u>Losses</u>	<u>Profits.</u>
Belleville	-	\$115,142.77
Bowmanville	\$1,355.45	-
Brighton	-	2,808.47
Cobourg	-	47,109.93
Deseronto	738.90	-
Lindsay	-	32,406.83
Millbrook	320.24	-
Napanee	4,441.64	-
Newburg	3,388.13	-
Newcastle	-	1,057.07
Orono	-	1,093.83
Oshawa	-	79,274.52
Port Hope	-	12,149.15
Trenton	-	62,978.31
Tweed	6,992.25	-
Peterboro (which retails power itself, now on cost basis)	<u>174.10</u>	
	\$17,410.71	\$354,020.88
		<u>17,410.71</u>
Net profit on local electric systems to October 31st, 1921		\$336,610.17
Net profit for year ended October 31st, 1922.		<u>84,475.22</u>
Total profit to October 31st, 1922		<u>421,085.39</u>

It will be noted that Oshawa made a profit for the Commission on the local distributing system to October 31st 1921, of \$79,274.52. This was more than double the loss of the Commission during the same period of \$35,312.29 on the Oshawa gas works referred to later. The profit on the local electric system in Cobourg for the period was \$47,109.93 which went far toward equalling the deficit on the Cobourg gas works, \$35,385.79, and on the Cobourg water works, \$27,783.69, of which we later give particulars.

Number of Consumers in Certain Municipalities.

The following table shows the number of consumers in the municipalities where the Commission retails power itself during each year since the Government purchase:-

Municipality	Number of Consumers at end of Fiscal Year						
	1916	1917	1918	1919	1920	1921	1922
Belleville	1,790	1,996	2,140	2,342	2,666	2,378	3,040
Bowmanville	680	669	638	720	777	815	905
Brighton	362	353	358	377	404	419	423
Cobourg	631	717	734	855	973	1,075	1,154
Deseronto	210	179	186	210	259	300	326
Lindsay	1,297	1,462	1,552	1,640	1,746	1,860	1,963
Millbrook	165	164	163	168	172	177	183
Napanee	546	559	577	612	658	711	757
Newcastle	147	143	146	148	148	162	170
Newburg Line	90	90	92	103	105	105	109
Orono	131	137	133	140	149	153	163
Oshawa	1,419	1,529	1,655	1,900	2,526	2,819	3,213
Port Hope	890	863	892	976	1,004	1,094	1,167
Trenton	974	1,034	1,162	1,242	1,322	1,420	1,391
Tweed	250	274	295	310	332	333	351
TOTAL	9,582	10,164	10,754	11,743	13,241	14,320	15,315

This table shows that the number of consumers in the fifteen municipalities mentioned have grown more than 50 per cent. since the system was taken over in 1916. The growth of the load in the whole of the Central Ontario Section has also kept pace with the growth in the number of consumers. The power demand in a number of places is steadily increasing and at a faster rate than the growth of population. It is difficult to estimate whether the future growth will be at a similar rate to that which has taken place during the last seven or eight years. The indications, however, are that the demand will steadily increase as the years pass by.

NIPISSEING SECTION

We have already described the property taken over by the Government in this Section and the extensions made. While this Section is included in the Central Ontario System, it is physically disconnected with the Trent Section. For this reason, while the total results of its operations are included in the general balance sheet, in detail its operations should be considered separately.

Capital assets at September 30th, 1922, were:

Tangibles	\$596,465.30
Intangibles	<u>197,855.79</u>
Total	<u>\$794,341.09</u>

The following statement shows profit and loss of the Section:

	<u>Loss</u>	<u>Profit</u>
1 year, 8 months ending Oct. 31, 1917	\$1,929.36	-
Fiscal year ending October 31, 1918	15,648.65	-
Fiscal year ending October 31, 1919	1,089.53	-
Fiscal year ending October 31, 1920	10,179.71	-
Fiscal year ending October 31, 1921	6,805.90	-
Fiscal year ending October 31, 1922		<u>\$5,300.79</u>
	<u>\$35,651.15</u>	<u>\$5,300.79</u>
	<u>5,300.79</u>	

Net loss to October 31, 1922 -\$30,350.34

The loss from the operation of this Section fluctuates to a considerable extent in the same ratio as the cost of operating the steam plant which is used as a stand-by. The cost of operating the steam plant for the years 1918 to 1921 was as follows:-

EXHIBIT

to have already furnished and properly taken care of
 the Government in this respect and the extension made. This
 the matter of extension is the subject of the report of the
 physically disconnected with the first section. The fact
 remains, with the other members of the committee on Finance
 in the general balance sheet, in detail the operations of the
 in financial statements.

General report of the committee on Finance, 1901-1902

Chapter I
 Introduction

Section 1

The following statement shows the results of the

operation

Item	1901-1902	1900-1901
1. Total	1,000,000	1,000,000
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and from the operation of this report to be printed
 in a convenient form for the use of the public
 and the Government in the future. The report
 may be printed in the form of a book or in the
 form of a pamphlet.

1918	-	\$14,321.62
1919	-	8,785.07
1920	-	17,995.22
1921	-	11,423.03

There is a renewal account of nearly \$100,000 which is included in the general renewal account of the System, but is applicable to the Kipissing Section.

GAS WORKS.

We have already referred to the gas plants bought by the Government. These were located at Cobourg, Napanee, Oshawa and Peterborough. The engineer in charge of them for the Commission states that when they were taken over they were in a most inefficient operating condition. The value of these works as shown on the books of the Commission at September 30th, 1922, was:

Tangibles	\$632,724.19
Intangibles	<u>75,599.35</u>
	<u>\$708,323.52</u>

The gas works have proved unprofitable. The losses from operation up to the year ended October 31st, 1922, amounted in all to \$108,430.62, made up as follows:-

1 year, 6 months ending Oct. 31, 1917	431,730.67
Fiscal year ending October 31, 1918	26,847.27
Fiscal year ending October 31, 1919	23,879.41
Fiscal year ending October 31, 1920	13,562.15
Fiscal year ending October 31, 1921	8,654.81
Fiscal year ending October 31, 1922	<u>3,756.61</u>
Total loss to October 31, 1922 . . .	<u>\$108,430.62</u>

The encouraging feature of the foregoing statement is that the losses have decreased each year and it is not

Page 1

18,100.00	=	1810
75,200.00	=	7520
25,000.00	=	2500
10,000.00	=	1000

There is a small amount of money in the hands of the State Treasurer which is not included in the above statement. This is the amount of the interest on the bonds of the State of Wyoming.

THE STATE

The State of Wyoming is a large and fertile country, and is one of the most important of the States of the Union. It is a State of great natural resources, and is one of the most important of the States of the Union. It is a State of great natural resources, and is one of the most important of the States of the Union. It is a State of great natural resources, and is one of the most important of the States of the Union.

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75,200.00	7520	1810
25,000.00	2500	1810
10,000.00	1000	1810
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The State of Wyoming is a large and fertile country, and is one of the most important of the States of the Union. It is a State of great natural resources, and is one of the most important of the States of the Union. It is a State of great natural resources, and is one of the most important of the States of the Union.

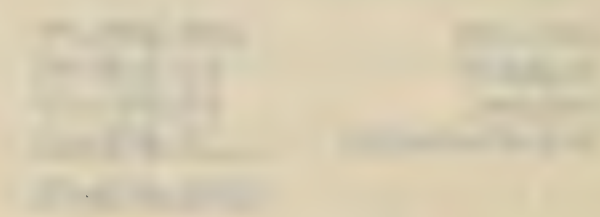
unreasonable to assume that the gas works will soon be self-sustaining. The lowering of the deficit has been mainly due to increased rates and increased consumption. The price of gas to consumers has been increased by the Commission almost 100% since the purchase by the Government. The following statement shows the loss incurred in each municipality up to October 31st, 1921:

Cobourg	\$35,385.79
Napanee	26,757.83
Oshawa	35,912.29
Peterborough	<u>6,588.10</u>
	<u>\$104,674.01</u>

The gas plant in Napanee has been closed down for over a year. We are informed that this plant cannot be successfully operated without considerable expenditure for repairs and new equipment and thus the Commission considers it inadvisable to make. The \$42,758.00 paid for the plant, and the additions thereto will apparently have to be written off. If the operating results at Cobourg, Oshawa and Peterborough should continue to improve as they have in the past the accumulated deficits of these plants should in time disappear. There appears to be no restriction regarding the price that may be charged for gas in Cobourg. In Peterborough and Oshawa there are certain restrictions, notwithstanding which we are informed that the respective Councils of these municipalities have raised no objection to certain increases that have been made.

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The first part of the document discusses the importance of maintaining accurate records and the role of the committee in overseeing the process. It also mentions the need for transparency and accountability in all actions taken. The second part of the document outlines the specific steps that will be taken to implement the recommendations made in the report. This includes the establishment of a working group to monitor progress and the regular reporting of findings to the committee. The document concludes with a statement of intent to ensure that all actions are taken in a timely and effective manner.



The following section details the specific measures that will be implemented to address the issues identified in the report. These measures are designed to ensure that the organization is able to meet its obligations and maintain the highest standards of performance. The first measure is the implementation of a new system for tracking and reporting progress. This system will allow the committee to monitor the progress of all actions in real-time and to identify any areas where progress is slow or stalled. The second measure is the establishment of a working group to oversee the implementation of the recommendations. This group will be responsible for coordinating the efforts of all departments and ensuring that all actions are taken in a timely and effective manner. The third measure is the regular reporting of findings to the committee. This will ensure that the committee is kept up-to-date on the progress of all actions and that it is able to provide guidance and support as needed. The fourth measure is the implementation of a new system for ensuring transparency and accountability. This system will allow all actions to be tracked and reported in a transparent and accountable manner. The fifth measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations. The sixth measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations. The seventh measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations. The eighth measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations. The ninth measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations. The tenth measure is the implementation of a new system for ensuring that all actions are taken in a timely and effective manner. This system will ensure that all actions are completed by the deadline and that the organization is able to meet its obligations.

WATER WORKS

The two water works systems purchased by the Government and operated by the System were located one at Trenton and the other at Cobourg. The water works system at Trenton was sold to the town on January 1st, 1919, at a loss of \$2,270.64. The capital cost to the Government of the Cobourg Water Works stood at September 30th, 1922, at \$273,343.33. The operation of the Cobourg Water Works has resulted in a loss, which by years is as follows:-

	<u>Loss</u>	<u>Profit</u>
1 year, 9 months ending Oct. 31, 1917	\$ 7,704.09	
Fiscal year ending October 31st, 1918	8,543.01	
Fiscal year ending October 31st, 1919	6,429.94	
Fiscal year ending October 31st, 1920	1,153.49	
Fiscal year ending October 31st, 1921	1,973.16	
Fiscal year ending October 31st, 1922		\$ 773.55
	<u>\$ 27,783.69</u>	<u>\$ 773.55</u>
	<u>773.55</u>	
Net loss to October 31, 1922 . . .	<u>\$ 27,010.14</u>	

It will be noticed that the operation for the year ended October 31st last showed a profit of \$773.55. The improved results of operation are largely due to the expiration on October 1st, 1919, of a franchise under which the rates chargeable were limited. Since this franchise expired the rates have been increased. No new agreement has been entered into and the Commission appears to be at liberty to fix rates at its pleasure.

PETERBOROUGH RADIAL RAILWAY

This railway is operated by the Commission under a franchise granted to a subsidiary of the Electric Power Company

The capital assets of this railway now stand on the books of the Commission at \$334,476.57. The railway, except for the period from March 1st, 1916, to October 31st, 1917, has shown an increasing loss each year as will be seen by the following statement:-

	<u>Loss</u>	<u>Profit</u>
1 year 8 months ending Oct. 31, 1917		\$ 1,848.84
Fiscal year ending October 31, 1918	\$ 12,323.41	
Fiscal year ending October 31, 1919	26,062.86	
Fiscal year ending October 31, 1920	26,663.74	
Fiscal year ending October 31, 1921	53,031.15	
Fiscal year ending October 31, 1922	54,218.20	
	<u>\$ 132,299.36</u>	<u>\$ 1,848.84</u>
	1,848.84	

Net loss to October 31, 1922 . . . \$ 130,450.52

Up to October 31st, 1921, the revenue from the railway increased each year but the operating expenses increased at a relatively greater rate. For the year 1922 the revenue showed a decrease for the first time since the Commission took charge. The increases in revenue were due to advances in the rates of fare throughout the period and also for the years up to 1920 to increases in the number of passengers. In 1918 the fares were increased from a ticket fare of six tickets for twenty-five cents or a cash fare of five cents to a straight five-cent cash fare, and on December 1st, 1920, the municipal council of the City of Peterborough authorized a straight seven-cent cash fare which became effective as of that date. The monthly average number of passengers carried, which in 1920 was 157,000 fell in 1921, to 118,000. The principal increases in operating expenses are due to increases in wages and also

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in 1921 to an increase in the cost of power.

We understand from the Commission that it is proposed to install about one dozen one-man cars and that it anticipates that lowered expenses will result therefrom. It is doubtful, however, if the railway will produce a revenue equal to the cost of operation unless there should be a large increase in the population of Peterborough. The accumulated deficit of this railway up to the present time is equal to one-third of the capital investment.

In Peterboro the electric distribution system was formerly owned by the Electric Power Company, but prior to the purchase of the assets of that company by the Government this plant had been expropriated by the City of Peterborough and the Commission receives no profit in Peterborough from electric distribution to set off in whole or part against the losses in respect of the railway.

CAMPBELLFORD PULP MILL

An interesting development purchased by the Government is Campbellford Pulp Mill, the cost of which, including a barking mill at Bancroft and the Bruton Township pulpwood areas purchased by the Government, to which reference is hereafter made, is shown on the book of the Commission as \$506,182.96. The Operations of the Pulp Mill up to October 31st, 1922, have resulted in a net profit of \$41,589.76, which by years is as follows:-

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	<u>Loss</u>	<u>Profit</u>
1 year, 6 months ending Oct. 31, 1917		\$ 32,753.62
Fiscal year ending October 31, 1918	\$14,869.89	
Fiscal year ending October 31, 1919	77,080.85	
Fiscal year ending October 31, 1920		189,869.25
Fiscal year ending October 31, 1921	17,693.84	
Fiscal year ending October 31, 1922	<u>71,508.53</u>	
	\$161,223.11	222,622.07
		<u>181,253.11</u>
Net profit to October 31, 1922		\$ 41,369.76

It will be noted that during the years 1918 and 1919, when the price of pulp ranged from \$30. to \$40. per ton, substantial losses were sustained. In 1920 the price of pulp rose to \$100 per ton and resulted in a profit for that year of \$189,869.25. Unfortunately the losses have made serious inroads into the surplus until now the balance on the right side is comparatively small and unless there is a substantial improvement this year the surplus may be altogether wiped out. So unprofitable has the undertaking recently proved to be that the mill was closed in March, 1921, and operations were not renewed until last September, when the market improved.

When the Province purchased the pulp mill it had no limits from which to secure pulpwood. It later purchased limits in the Township of Bruton for which it paid \$300,000, made up of \$75,000 cash and \$225,000 ten-year 5% bonds. The limit contains 40,000 acres of which 8,000 acres are waste and water lands. In 1920, when the mill was being operated at a large profit, certain offers for the mill and limits were made to the Commission, but no offer was accepted. One of the parties making an offer, or his agent, was paid \$10,000.

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1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	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by the Commission upon the cancellation of his option.

This sum was charged in the costs of operation for the year, 1921.

It is undesirable that the Commission should carry on such business as operating a pulp mill, and in our opinion advantage should be taken of the first opportunity to dispose of the property at a fair and reasonable price. Question has been raised as to the quantity of pulpwood that there is upon the Bruden limits, the estimates made to us running from 80,000 to 210,000 cords. We recommend that the limits be thoroughly cruised and the quantity of pulpwood thereon ascertained.

The Kingston Contract

An agreement which has resulted in a considerable loss to the Province is that with the City of Kingston. This agreement was not in existence at the time of the purchase of the Central Ontario System but was entered into by the Commission with the City of Kingston, in September, 1916. It runs for twenty years. This contract has resulted in a consistent loss. The loss for the three years ending October 31st, 1921, is as follows:-

1919	\$14,142.34
1920	12,784.10
1921	<u>6,746.48</u>
	<u>\$ 33,642.92</u>

Options to Purchase

Certain municipalities have the right under agreements entered into between them and prior owners of the Central Ontario

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of the Commission and the Commission on the
100-300000-1000000

100-300000-1000000

It is recommended that the Commission should
with respect to operating a public utility, and in the
Commission should be given the right to operate
in the territory of a public utility company. The
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in the territory of a public utility company. The
Commission should be given the right to operate
the public utility, and the Commission should be
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plants to take over their local electric systems at their actual value. The "Actual Value" would not include the intangible value that has been charged against these properties by the Commission. Hence if the municipalities were to purchase, the Government would receive nothing for the intangibles which it bought. The amount of intangibles allotted to these local electric systems by the Commission as of March 1st, 1916, was ^{up} \$68,263.00 made/as follows:

Belleville	\$25,830.00
Bowmanville	7,609.00
Bessierette	2,957.00
Lindsay	12,493.00
Millbrook	3,000.00
Newcastle	1,474.00
Orono	1,028.00
Port Hope	13,892.00
	<u>\$68,263.00</u>

There would, therefore, be a loss to this extent to the Government in the event of the sale of these properties, if the values of the properties when taken over should be the same as the values placed on them by the Commission when the systems were taken over in March, 1916. Since that time there has been a considerable increase in values and it may be that the increase in value might equal or more than equal the values placed on the intangibles at the time of the purchase.

In addition to the above municipalities there are certain municipalities that have the right to take over the electric systems within their respective limits at a valuation to be determined by arbitration in case the parties cannot agree as to price. In this latter class there is nothing in

the agreements to show whether or not intangibles should or should not be included in the price that may be paid.

Contracts for Power

A number of private companies purchase power directly from the Commission. One of the principal consumers is the Canada Cement Company which entered into a contract for power in 1910, with the then owners of the power development, for a period of 15 years with the right to renew for 15 years more, so that the company has the right to continue the contract until 1940. The price at which this power is delivered to the consumer is \$17.75 per horsepower per annum subject to certain adjustments. This has proved a most unprofitable contract. The loss on it for the three years that ended October 31st, 1921, was \$73,591.17, of which \$51,960.57 was for the year that ended October 31st, 1921. The revenue received by the Commission from the company for that year was \$68,000.00 so that the loss on the contract was over 43%. If the operations of the company increase it would soon be probable that the deficit will continue to grow in size. The Company has not only the right under the contract to take power for itself but has the right to resell the power which it purchases to contractors or others doing work for it. It is not surprising that our consulting engineer describes this contract as "a heavy burden on the enterprise."

THE SECRETARY OF THE ARMY
WASHINGTON, D. C.

DEAR SIR:

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed purchase of the land at the mouth of the River, and in reply to inform you that the same has been referred to the proper authorities for their consideration. The result of their action will be communicated to you as soon as it is known.

Very respectfully,
Your obedient servant,
J. M. Smith

Losses.

It will be readily seen from the foregoing statements there are some very serious losses. The losses from the Campbellford Pulp Mill and the Peterborough Street Railway in 1922 and on the Canada Cement Company contract in 1921, alone amounted to \$157,767.50. The Commission is fortunate in securing profits elsewhere from retail sale of power, made under contracts taken over from the Electric Power Company. If the municipalities whose local distributing systems are operated by the Commission should take over these systems from the Government, the loss of revenue resulting would be serious. **COPY** Mr. [redacted], the auditor of the Commission suggests that if these local systems were taken over by the municipalities the only way for the Commission to make up the losses would be to increase the charge for power supplied to them.

Sinking Funds.

Under the Power Commission Act provision is made for sinking funds to meet the cost of construction of the various undertakings. In the Act respecting the Central Ontario development there is no corresponding provision. Sinking funds have been provided only in respect of the Ottawa Rural Line, the Bruden Township Pulpwood areas and the barking mill at Bancroft. We have already shown that the total amount of sinking funds accumulated up to October 31st, 1921, amounted,

with interest thereon to only \$28,665.54. There are certain municipalities in the Central Ontario System with which the Commission has made contracts on the usual Hydro form to supply power at cost and there is a provision in these contracts for the establishment of sinking funds. These municipalities include the City of Peterborough, which entered into a contract with the Commission on March 1st 1913. the town of Plinston and the villages of Bloomfield, Lakelfield, Harmer, Wellington, Havelock and Harwood. Yet in the case of none of these municipalities has any action been taken by the Commission to establish a sinking fund.

It is not surprising that the Commission has not attempted to establish sinking funds in these cases. There are great practical difficulties in the way. If the sinking funds were established and the municipalities acquired an interest in the generating stations, transmission lines, etc., the Commission, while trustee for them would be using the same plants to supply power to municipalities and private customers who have contracts for power at flat rates. It would also have to continue to operate the Peterborough Street Railway and the Campbellford Pulp Mill which take power from the Commission and pay cost for such power exclusive of sinking funds. Mr. Clarkson says, in reporting upon this subject to the Government;

" If the system be operated on such a basis it is not impossible or improbable that some confusion may ultimately arise about as to the exact rights of the Province and the municipalities under contract if sinking funds be collected from the latter; and it is not clear as to how far the provisions of the Power Commission Act will or will not apply to the operation of the system."

It is clearly in the interests of the Province that a sinking fund be established, for a sinking fund would be in effect a payment on account of the cost of the property to the Government, and the greater the payments the greater security the Government would have. But owing to the variety of contracts under which power is supplied by the Commission there are, as Mr. Clarkson points out, great practical difficulties in the way. In my opinion it would be better to let the matter rest until a comprehensive plan for a general sinking fund can be carefully worked out. We agree with Mr. Clarkson that if one were established under existing conditions confusion might result.

Reserve for Contingencies

The Reserve for Contingencies for the System amounted as of October 31st, 1921, to \$7,982.61. The Commission appears to have set aside for this fund a reserve on the basis of twenty-five cents per horsepower installed. The charges against the contingency reserve

for the year 1921 amounted to \$30,764.49. If the amount expended for 1922 had equalled this there would have been a deficiency of about \$14,000.00. Our consulting engineer referring to the Contingency Reserve says:

" Having in mind the heavy losses which might be occasioned through catastrophe, it is felt that the total amount at the credit of this account should be augmented by increased annual allowances for contingencies, and when a reserve of say \$50,000 or \$75,000 will have been built up the rates can be readjusted to suit the conditions found after several further years of experience."

We fully agree with this statement and recommend that the course proposed be followed.

The contingency reserve in the Nipissing Section which now amounts to \$1,001.00 might well be built up to say \$20,000.00.

Reserve Funds

The Commission has set aside a Renewal Reserve, which with the amount also set aside for Sinking Fund and Contingencies (hereinafter mentioned) amounted as at October 31st, 1921 to \$1,081,044.67, made up as follows:-

For Renewals	\$1,044,426.52
For Sinking Fund	28,665.54
For Contingencies	<u>7,952.61</u>
	<u>\$1,081,044.67</u>

This sum has been applied as follows;

(51)

Used to increase working capital (in addition to working capital advanced by the Government). . .	\$144,674.83
Lost through operation to October 31st, 1921	168,930.15
Invested in capital assets . . .	<u>767,439.69</u>
	<u>\$1,081,044.67</u>

It has been suggested that the renewal fund is larger than is necessary and might well be reduced. In the matter of a renewal fund it is always well to be on the safe side. It would in our opinion, be unwise to reduce the renewal fund until a revaluation of the property has been made and the question as to whether or not the renewal fund is too large or too small has been placed beyond a reasonable doubt. As it is, the size of the renewal fund is one of the most favorable conditions in connection with the Central Ontario development. To its extent it affords substantial security to the Government for its investment. If it were reduced the security of the Government would be reduced to the same degree. Under the conditions in which it is placed the Government should get all the security that it reasonably can and hold all the security that it gets.

The use of the renewal fund as capital seems to us to have been right and proper. If it had not been used as capital the amount that the Government would have had to furnish would have been increased by just that amount.

Funds Wrongly Diverted

The amount appropriated by the Province of Ontario for the Central Ontario System between the date of the purchase

and October 31st, 1920, was \$3,823,185.00 made up as follows;

Year Ending Oct. 31st	Amounts Appropriated by the Province	Advances by Province including bonds issued in connection with the pur- chase of Bruton Township Pulpwood areas.		
		Under Appropriation	Under Special Warrants	Total
Mar. 1st 1916 to				
Oct. 31st. 1917	\$1,845,000	\$1,300,000	\$ 250,000	\$1,550,000
1918	648,185	448,185	120,000	568,185
1919	1,175,000	895,000	280,000	1,175,000
1920	925,000	230,000	500,000	530,000
	<u>\$4,593,185</u>	<u>\$2,873,185</u>	<u>\$ 950,000</u>	<u>\$3,823,185</u>

Before these sums were voted by the Legislature the Commission made application for them setting forth in detail the purposes for which they were to be used. Some of the amounts asked for were to be used, so it was stated in the application, for new or extended power development, some for transmission lines, some for transformer stations, others for gas and water works or other purposes.

The amounts voted by the Legislature were paid over to the Commission but only a part was used for the purposes mentioned in the requisitions. In all \$1,719,472.22 voted by the Legislature for use on the property of the Province in Central Ontario during the years 1916 to 1920 was diverted by the Commission and expended, not on the property of the Province, but on plants throughout Ontario that the Province did not own but that were being operated by the Commission under the provisions of the Power Commission Act. A large portion of

this money was used for building a third pipe line for the Ontario Power Company at Niagara. The purposes for which the appropriations were used cannot have been in the minds of the Legislators when the appropriations were made by them.

When out of the amount voted by the Legislature to be applied for specific purposes on the property of the Province in Central Ontario \$1,719,000. is used, not for these purposes, nor on this property, but elsewhere, it is difficult to avoid the conclusion that the Commission never intended to use these moneys for the purposes for which they were asked but applied for them in order to have money to use in other places and for other purposes altogether. The Commission in diverting them was guilty of a breach of faith and showed a flagrant disregard for the law.

We find no record in the minutes of the Commission authorizing the diversion of these funds. Sir Adam Beck tells us that he does not know whether or not the Commission did authorize the diversion and it is probable that no member of the Commission other than himself knew about it. The following extract from the evidence of Sir Adam Beck in our opinion fairly summarizes his attitude on the subject:-

"Q. " ... according to your books, Sir Adam, there were appropriations made by the Ontario Legislature for the Central Ontario system and they appear to have been diverted from that system to the systems of the Hydro elsewhere?

A. Yes, I think that was done various times. I think there were moneys available, and so on, during the war, methods of financing were used that were not altogether in accordance with the strict letter of the law "

Or in other words, if the Government did not give the Commission what it wanted when it wanted it, the Commission was justified in using any money which it had on hand, for any purpose. This was not corruption but it was an absolute disregard for the authority of Parliament. That Canada was at war, in no way justified the practices referred to. In fact the diversions were made to a greater extent after the war than during its progress. In the last year of the war they amounted to \$130,048.79, while in 1919 they reach \$701,618.20, which was 59 per cent, of the appropriations for that year.

Mr. C. T. Clackson the Auditor, in his report year after year to the Government of the day made reference to these diversions and informs us that he also took the matter up both with the Government and the Commission and pointed out the illegality of the course that had been taken. Finally in 1921, the Commission paid back to the Government the \$1,719,472.22 which it had taken, and interest thereon. It seems unbelievable that any Commission could wrongfully divert over \$1,700,000 voted by the Legislature for specific purposes without being sharply called to account.

Power Shortage

During the late summer and early fall of 1921 and 1922 there was a serious shortage of power in the Trent District. As a result many manufacturing plants had to be closed down for some days and much inconvenience and loss resulted. The representatives of the Commission claimed that the Dominion Government had unreasonably withheld water and

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that to the action of the Dominion Government in this regard the shortage of power was directly attributable. We heard Major Graham Bell, Deputy Minister of Railways and Canals, on this question. Major Bell strongly denied the statement that the Dominion Government was to blame and produced much evidence tending to show that responsibility for the shortage did not rest upon it. To pass upon the dispute between the Dominion and the Commission in regard to the shortage would require a fuller investigation than we have had opportunity of making. We believe, however, that the exchange of opinions made before us by Major Bell and his engineers and the engineers and other representatives of the Commission will be productive of good. There are the strongest of reasons for the hearty and sympathetic co-operation of the officials of the Dominion Government and those of the Commission. If there should be such co-operation in the future the danger of power shortage would be greatly reduced.

Further Sources of Power

Our consulting engineer points out in his report to us that the possibility of further development of power in the Trent Section is limited. There appears to be no doubt that before many years pass by it will be necessary to bring power into the Section from other sources. It may be found desirable to carry Niagara power into a number of places in the westerly portion of the Section, for example, Oshawa, Whitby and Bowmanville.

During the course of our inquiry the Mayor and other citizens of North Bay appeared before us and urged the

advisability of constructing a development plant on the French River. At Chaudiere on this river there is at present a dam which has been erected by the Dominion Government. Mr. T.H. Hogg, an hydraulic engineer on the staff of the Commission, stated that the estimated cost of a development at this point of from 10,000 to 12,000 h.p. would be approximately \$1,900,000. If a development were made there the power would be available for North Bay at such time as the increased power to be derived from the proposed development on the South River, already mentioned, would be exhausted. It might be found feasible to generate power on the French River at Chaudiere and carry it into the northern part of the Trent Section. If this plan were found practicable the bringing in of power from Niagara might be found unnecessary. We recommend that a report be obtained on possible development on the French River and the feasibility of carrying power from there for use in the Trent Section. If power should be developed on the St. Lawrence it would, of course, provide a supply of power for Central Ontario that would make supply from any other sources unnecessary.

Future Policy

What course should the Government take in respect of the Central Ontario System? We are strongly of opinion that its settled policy should be to dispose of it as soon as possible. In any event it should dispose of it prior

to the maturity of the bonds in 1926. The first step should be to have a comprehensive inventory and valuation made. When the valuation is made a conference of the Government, the Commission and the municipalities should be held and an understanding arrived at as to what properties the municipalities will take over. The properties that the municipalities do not desire to take over should be disposed of and the municipalities should take the others at prices equal to the balance due the Government in respect of its investment. In dealing with the matter the Government should find the report of Mr. Walter J. Francis, our Consulting Engineer, and the report of Messrs. Price, Waterhouse & Co., our accountants, of great value.

Since the property was purchased in 1916 many changes have taken place. Some of the property has been sold, some has been scrapped, some has doubtless depreciated in value. On the other hand there have been extensive improvements and additions. The general increase in values which has taken place since 1916 must have increased the selling value of many, if not most, of the plants, notwithstanding obsolescence. The tables that we have given show the large and increasing demand for power throughout the System.

In the final settlement some of the properties, such for instance, as local distributing plants would doubtless

be made over to the respective municipalities within which these plants are located. Others, such as generating plants and transmission lines, would be acquired by the municipalities collectively. It appears to us that the proper course to take in respect of these properties of the System which the municipalities take collectively would be to arrange for the operation of them by the Commission under the provisions of the Power Commission Act. The most difficult part of the settlement will probably be the adjustment between the municipalities themselves, but while this may prove difficult it should be by no means impossible to arrive at an agreement which will be fair and equitable to all. It may be necessary to call in an arbitrator to adjust these matters, if any, upon which the municipalities themselves fail to agree. When an agreement is arrived at a special Act of the Legislature might well be passed confirming it. In a settlement the municipalities will, of course, receive the benefit of the renewal and sinking funds now on hand. If a sale to the municipalities should not be made and the property continue in the hands of the Government, sound policy will demand that the Government build up a sinking fund for the whole System out of the receipts.

We have given full consideration to the representations made to us by gentlemen representing Central Ontario municipalities that the municipalities should not be required or expected to take over the properties at the cost of these properties to the

Provincial Government. It is premature to discuss price before a valuation of the properties has been made, but we are of opinion that whatever the valuation may be it would not be fair or just to require the people of Ontario to pay any part of the outlay which the Government made for the municipalities of Central Ontario. At the time of the purchase the municipalities were represented and their representative assented to the terms finally agreed upon. In complying with the request of the municipalities and lending the credit of the Province to purchase, maintain and extend the System, the Government rendered valuable service and should not suffer loss because it did so.

FINDINGS AND RECOMMENDATIONS

Our principal findings and recommendations may be summarized as follows:-

1. The Commission found its path eastward obstructed by the private interests operating the Trent Section. It was called in by the municipalities which desired it to extend its operations to that district. It negotiated for the purchase from the private interests of their developments and finally the Provincial Government, acting for the Commission, purchased the property with the understanding on the part of all parties that it would finally turn it over to the Commission to be operated under the Power Commission Act.

The following information was obtained from a confidential source who has provided reliable information in the past. The source has provided information that is of a confidential nature and is being provided to you for your information only. The information is being provided to you in confidence and is not to be distributed to any other person without the express written consent of the source. The information is being provided to you in confidence and is not to be distributed to any other person without the express written consent of the source.

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2. The price paid for the property was not fixed by arbitration nor was it based upon physical or earning values but was the result of negotiations and barter.

3. Unfortunately, although the Government purchased the property on the understanding on the part of the Government, the Commission and the municipalities that it would be turned over to be operated under the Power Commission Act, no agreement was arrived at between the municipalities themselves or between the municipalities and the Government as to the terms upon which the property should be turned over. Before the Government made the purchase there should have been a clear and definite agreement between it and the municipalities setting forth the terms and conditions on which the Government would turn over the property and protecting the Government from any danger of loss. Such an agreement would have left no room for misunderstanding. Difficulties in the way of such an agreement as now exist did not exist then.

4. The agreement was hurriedly made and the measure validating the agreement was brought before the Legislature and passed through in a single day. It was impossible in the short time available for discussion to consider the agreement as fully or properly provide for the protection of the interests of the Province.

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5. Although it was understood that the properties should be made over for operation under the Power Commission Act, no progress in this direction has been made. We recommend the unscrambling of the system and the sale and making over of the properties in the manner already set forth.

6. A valuation of all the utilities must be made before the unscrambling. Such valuation should be made at an early date.

7. Sinking funds should be provided, whether the property is owned by the Government or by the municipalities, through the Commission. When the present bonds fall due in 1926 new bonds will have to be issued and the sinking fund should be fixed on a basis of providing for the payment of the new bonds at maturity.

8. The rates fixed for renewals should not be lowered, if at all, until after a valuation has been made and careful consideration given to adequate provision for obsolescence, antiquation and other causes of depreciation.

9. Contingent funds should be increased and should be levied on a logical basis. At present they are far too small to cover the hazard adequately.

10. Such steps should be taken as would render impossible further diversions of funds such as we have described.

11. A study should be made as to whether it is practicable to develop power on the French River to supplement the present power available for the Central Ontario System.

A study should also be made as to the cost and desirability of carrying Niagara power into the Central Ontario System.

12. The Government is liable for an outlay of more than \$12,000,000 in the Central Ontario System. The reports that have been made to it by the Commission from time to time, although containing much information, fall far short of giving a clear and comprehensive view of conditions as they now exist. A much fuller account of the conditions and of operations should be given annually by the Commission to the Government and should be made available for the municipalities interested.

DATED MARCH 2nd, 1923.

(Signed)

W. D. GREGORY
Chairman

M. J. HANEY

ALLOYD HARRIS

J. ALLAN ROSS

E. A. ROSS

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